



Dart Aerospace Ltd.
1270 Aberdeen St
Hawkesbury, ON
K6A 1K7
Canada

Tel (613) 632-5200
Fax 613 632-5246

D4777-1

Job Sheet 192778



Part No: D4777-1

Job Qty: 30 pcs

Part Name: Rod End Bearing



Part Weight: 0 lbs

Status: New

Priority: Medium

Job Created: 4/2/19

Job Tracking No:

Due Date: 4/22/19

Created By: Marie Lajeunesse

Type: SOLD

Description:

Note: DWG REV A IPP REV:A 12.10.03 NEW ISSUE DD VERF:JFS

Ship Via:

Bill of Materials

Job Routing

Op No	Operation	Qty	Start Date	Due Date	Standard		Workcenter/Supplier	Sign-off
					Setup Hrs	Run Hrs		
100	Purchasing	30 pcs	4/22/19	4/22/19	0.00	0.00	Purchasing - 1	
							Purchasing - 2	
							Purchasing - 3	
110	Packaging 2-1 - Receive - B4B	30 pcs	4/22/19	4/22/19	0.00	0.00	Packaging 2 - 1 - B4B	
							Packaging 2 - 2 - B4B	
							Packaging 2 - 3 - B4B	
							Packaging 2 - 5 - B4B	
							Packaging 2 - 4 - B4B	
							Packaging 2 - 6 - B4B	
							Packaging 2 - 7 - B4B	
							Packaging 2 - 8 - B4B	
							Packaging 2 - 9 - B4B	
							Packaging 2 - 10 - B4B	
							Packaging 2 - 11 - B4B	
							Packaging 2 - 12 - B4B	
							Packaging 2 - 13 - B4B	
							Packaging 2 - 14 - B4B	
							Packaging 2 - 15 - B4B	
							Packaging 2 - 16 - B4B	
							Packaging 2 - 17 - B4B	
							Packaging 2 - 18 - B4B	
							Packaging 2 - 19 - B4B	
							Packaging 2 - 20 - B4B	
							Packaging 2 - 21 - B4B	
							Packaging 2 - 22 - B4B	
							Packaging 2 - 23 - B4B	
							Packaging 2 - 24 - B4B	
							Packaging 2 - 25 - B4B	
							Packaging 2 - 26 - B4B	
							Packaging 2 - 27 - B4B	
							Packaging 2 - 28 - B4B	



Dart Aerospace Ltd.
1270 Aberdeen Street
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CANADA
TEL.: 1 613 632-5200
Email: sales@dartaero.com
www.dartaerospace.com

Container No: S169675



Part: D4777-1

Job No: 192778

Serial No/Batch: S169675

Revision:

Inspector:

Exp Date:

Instructions: Various STC's

Date: 04/04/19

					Packaging 2 - 29 - B4B	
					Packaging 2 - 30 - B4B	
					Packaging 2 - 31 - B4B	
					Packaging 2 - 32 - B4B	
					Packaging 2 - 33 - B4B	
					Packaging 2 - 34 - B4B	
					Packaging 2 - 35 - B4B	
					Packaging 2 - 36 - B4B	
120 QC 6	30 pcs	4/22/19	0.00 0.00	QC 6 - 9	APR 08 2019	DAS 40
				QC 6 - 68		9-89
				QC 6 - 61		
130 Packaging 3-1 - Stock - B4B	30 pcs	4/22/19	0.00 0.00	Packaging 3 - 1 - B4B		
				Packaging 3 - 2 - B4B		
				Packaging 3 - 3 - B4B		
				Packaging 3 - 4 - B4B		
				Packaging 3 - 5 - B4B		
				Packaging 3 - 6 - B4B		
				Packaging 3 - 7 - B4B		
				Packaging 3 - 8 - B4B		
				Packaging 3 - 9 - B4B		
				Packaging 3 - 10 - B4B		
				Packaging 3 - 11 - B4B		
				Packaging 3 - 12 - B4B		
				Packaging 3 - 13 - B4B		
				Packaging 3 - 14 - B4B		
				Packaging 3 - 15 - B4B		
				Packaging 3 - 16 - B4B		
				Packaging 3 - 17 - B4B		
				Packaging 3 - 18 - B4B		
				Packaging 3 - 19 - B4B		
				Packaging 3 - 20 - B4B		
				Packaging 3 - 21 - B4B		
				Packaging 3 - 22 - B4B		
				Packaging 3 - 23 - B4B		
				Packaging 3 - 24 - B4B		
				Packaging 3 - 25 - B4B		
				Packaging 3 - 26 - B4B		
				Packaging 3 - 27 - B4B	S+115	APR 09 2019
				Packaging 3 - 28 - B4B		
				Packaging 3 - 29 - B4B		
				Packaging 3 - 30 - B4B		
				Packaging 3 - 31 - B4B		
				Packaging 3 - 32 - B4B		
				Packaging 3 - 33 - B4B		
				Packaging 3 - 34 - B4B		
				Packaging 3 - 35 - B4B		
				Packaging 3 - 36 - B4B		
140 QC 21 - SA	30 pcs	4/22/19	0.00 0.00	QC 21 - SA - 21		DAS
				QC 21 - SA - 70		21
				QC 21 - SA - 53		9-89 APR 09 2019

Part Op **100** - (Purchasing) Issue P/O: _____ Purchase Part Number: 59915K274 or CTG
 Descriptions: **110** - (Receive & Inspect for Damage & Mat'l Certs) Ensure certificate of conformity is attached
120 - (QC6- All purchased or subcontracted products)
130 - (Identify as per dwg & Stock Location: _____)
140 - (QC21- Final Inspection - Work Order Release)

Job BOM

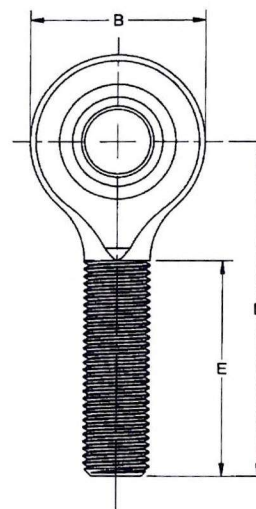
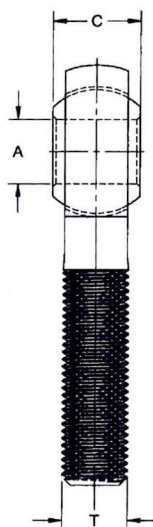
Part / Item	Component Name	Quantity	Operation	Container
59915K274	Rod End Bearing D4777-1	30 pcs (1 ea)	100-Purchasing	5169674

Job Allocations				
Operation	Component Part	Required	Inventory	Allocated
100-Purchasing	59915K274	30	0	0
Part Specifications				
Specifications could not be found.				

Plex 4/2/19 8:19 AM Dart.lajeunesse.marie

SPECIFICATION CONTROL DRAWING

SHOP COPY
RETURN TO
ENGINEERING
UNCONTROLLED COPY
SUBJECT TO AMENDMENT
WITHOUT NOTICE
WORK ORDER
NO. 192778 MCO
19-04/02



ROD END BEARING

DART P/N	HOUSING MATERIAL	A	B	C	D	E	T (THREAD SIZE)	SUGGESTED SUPPLIER	SUGGESTED SUPPLIER P/N
D4777-1	STAINLESS STEEL	Ø 0.38	1.00	0.500	1.94	1.25	3/8-24 (RIGHT HAND)	MC MASTER CARR	59915K274

RELEASED
2013-08-14

A	NEW ISSUE	AJS	13.08.08
REV.	DESCRIPTION	BY	DATE
DESIGN	AJS		
DRAWN	AJS		
CHECKED	16		
MFG. APPR.	21		
APPROVED	19		
DE APPR.	19		
DATE	13.08.08		
DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA DRAWING NO. D4777 REV. A SHEET 1 OF 1 TITLE ROD END BEARING SCALE NTS COPYRIGHT © 2013 BY DART AEROSPACE LTD THIS DOCUMENT IS PRIVATE AND CONFIDENTIAL AND IS SUPPLIED ON THE EXPRESS CONDITION THAT IT IS NOT TO BE USED FOR ANY PURPOSE OR COPIED OR COMMUNICATED TO ANY OTHER PERSON WITHOUT WRITTEN PERMISSION FROM DART AEROSPACE LTD.			

Entered: _____ Date: _____



WORK ORDER NON-CONFORMANCE / ROUTE UPDATE

NCR No. _____

Route update only ☐

Job: _____ Part No. _____	DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐	DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Eng. (Non-AW) ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Engineering ☐ Water Jet ☐ Supplier ☐ Quality ☐			
Date : _____	Sequence #: _____	QTY Affected : _____		MRB (QSI042)	
Description Work Order Deviation		Disposition		Completed By	
				Lead hand / Supervisor	
				QC / QA Coordinator	
Root Cause Operator ☐ Manufacturing Process ☐ Equip/Tooling ☐ Handling/Presservation ☐ Material ☐ Product Improvement ☐ Process Improvement ☐ Human Factors ☐		FAULT CATEGORY ☐ Pressure/Forced ☐ Bending ☐ Crushing ☐ Cracks ☐ Crimp/Kink/Ripple/Wave/Twist ☐ Marks/Chatter ☐ Mislabeled ☐ Contamination ☐ Misaligned/off center ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Incomplete/Unclear Instructions ☐ Drill Holes ☐ Fit/Function ☐ Power Loss/Surge ☐ Folio/Program ☐ Grain Direction ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set/Set-up ☐ Positioned Wrong ☐ Outside Tolerance ☐ Drawing ☐ Finish ☐ Part Lost/Missing ☐ Misread			
Other/Details:					



Dart Aerospace Ltd.
1270 Aberdeen St
Hawkesbury, ON
K6A 1K7
Canada

Tel (613) 632-5200

PURCHASE ORDER

PO043057



Supplier: MCM001-VU
McMaster-Carr Supply Co,
P.O. Box 7690
Chicago, IL 60680-7690 USA
Phone: 330 995 5500
Fax: 330 995 9600

Attention: N/A,

Ship To: 1270 Aberdeen Street
Hawkesbury
ON
K6A 1K7 Canada
Phone: 613-632-5200

PO No: PO043057

PO Date: 4/2/19

Due Date: 4/5/19

**Purchase Order
Revision:**

Revision Date:

Ship-To Contact: Phone:

Via: Ground

Pynt Terms: 2% 10 Net 30

Freight Terms:

Special Comments:

APR 02 2019

REFUSED

APR 02 2019

Items

Line Item	Job	Part	Supplier Part No	Description	Status	Account	Due Date	Order Quantity	Received Quantity	Balance	Unit Price (USD)	Extended Price
1		98021A446	1/pk	T-Pin, 4" X 5/16" Dia. receive ea	Firmed	-	4/5/19	4 Ea	0 Ea	4 Ea	\$7.11/Ea	\$28.44
2	192796	92311A599		Set Screw D2712 as per dwg d2712 rev.B	Firmed	-	4/5/19	200 pcs	0 pcs	200 pcs	\$0.2432/pcs	\$48.64
3		97484A341	100/pk	Aluminum Solid Rivets 1/4" Dia. X 3/8" Long	Firmed	-	4/5/19	200 Ea	0 Ea	200 Ea	\$0.1077/Ea	\$21.54
4		8631K211	2 ft long	Rubber Square Bar 90A Extra Hard	Firmed	-	4/5/19	4 ft	0 ft	4 ft	\$18.175/ft	\$72.70
5		90264A440	10/pk	Zinc Plate Steel Coupling Nut 1/4"-28	Firmed	-	4/5/19	10 Ea	0 Ea	10 Ea	\$0.39/Ea	\$3.90
6	192778	59915K274		Rod End Bearing D4777-1 : AS PER DWG D4777 REV. A	Firmed	-	4/5/19	30 pcs	0 pcs	30 pcs	\$23.17/pcs	\$695.10
7		92497A500	25/pk	Nut M12	Firmed	-	4/5/19	25 Ea	0 Ea	25 Ea	\$0.5588/Ea	\$13.97
8		20NR-20	92383A754 10/pk	Actuator Pin - Long	Firmed	-	4/5/19	20 Ea	0 Ea	20 Ea	\$0.505/Ea	\$10.10
9		20NR-27	90145A514 20/PK	Spring Holder Pin	Firmed	-	4/5/19	20 Ea	0 Ea	20 Ea	\$0.658/Ea	\$13.16
10		20NR-46	97135A275 5/PK	Nut, 5/8	Firmed	-	4/5/19	5 Ea	0 Ea	5 Ea	\$0.916/Ea	\$4.58

DAS
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9-89



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PURCHASE ORDER

PO043057



Items												
Line Item	Job	Part	Supplier Part No	Description	Status	Account	Due Date	Order Quantity	Received Quantity	Balance	Unit Price (USD)	Extended Price
11		20NR-53	91257A745 5/pk	Bolts 1/2 x 3	Firmed	-	4/5/19	10 Ea	0 Ea	10 Ea	\$1.622/Ea	\$16.22
12		20NR-65	90145A884 10/pk	Slide Rail Bumper Pin	Firmed	-	4/5/19	10 Ea	0 Ea	10 Ea	\$0.39/Ea	\$3.90
13		20NR-22	95229A610 50/pk	Washer, Actuator	Firmed	-	4/5/19	50 Ea	0 Ea	50 Ea	\$0.2592/Ea	\$12.96
14		20NR-60	8491A738 1/per pk	Lock Bushing	Firmed	-	4/5/19	12 Ea	0 Ea	12 Ea	\$11.77/Ea	\$141.24
Grand Total:											\$1,086.45	

Order Notes

Procurement Quality Clauses

A005 RIGHT OF ENTRY

A016 PERSONNEL QUALIFICATION

A026 CERTIFICATION OF MATERIAL CONFORMANCE

A032 DOCUMENT SPECIAL REQUIREMENTS

A033 STATEMENT OF CONFORMITY/TEST RECORDS FOR NAS, AN and MS FASTENERS

A040 NOTIFICATION OF QUALITY ESCAPE

A041 QUALITY MANAGEMENT SYSTEM

A042 DART NOTIFICATION BY SUPPLIER

A043 RETENTION OF QUALITY DOCUMENTS

A048 COUNTERFEIT PARTS AVOIDANCE, DETECTION, MITIGATION AND DISPOSITION PROGRAM

A049 SUPPLIER AWARENESS

Terms & Condition of Purchasing(Suppliers) and Procurement Quality Clauses are an integral part of our AS9100 requirements. To learn in detail, please visit www.dartaerospace.com for further explanation.

Plex 4/3/19 7:40 AM dart.lavoie.chantal

200 Aurora Industrial Pkwy
Aurora OH 44202-8087
330-995-5500
cle.sales@mcmaster.com

Dart Aerospace Ltd
1270 Aberdeen St
Hawkesbury ON K6A 1K7
Canada

Purchase Order
PO043057

Order Placed By
Chantal Lavoie

McMaster-Carr Number
2369219-02

Page 1 of 1

04/02/2019

Line	Product	Ordered	Shipped
1	98021A446 Through-Hole Alignment Pin, T Style, 5/16" Diameter Pin, 4" Long	1 Each	1
2	92311A599 18-8 Stainless Steel Cup-Point Set Screw, 5/16"-24 Thread, 5/8" Long, Packs of 50	4 Packs	4
3	97484A341 Large-Diameter Low-Profile Domed Head Solid Rivets, 1/4" Diameter, for 0.25" Maximum Material Thickness, Packs of 100	2 Packs	2
5	90264A440 Zinc-Plated Steel Coupling Nut, Low-Strength, 1/4"-28 Thread Size	10 Each	10
6	59915K274 Corrosion-Resistant Ball Joint Rod End, 3/8"-24 Thread, Right Hand	30 Each	30
7	92497A500 High-Strength Steel Hex Nut, Class 10, Zinc Yellow-Chromate Plated, M12 x 1.75 mm Thread, Packs of 25	1 Pack	1
8	8491A738 Press-Fit Drill Bushing, 0.5" ID, 3/4" OD, 1-1/2" Long	12 Each	12

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9-89**

Shipped separately from our Chicago warehouse on 04/02

4	8631K211 Abrasion-Resistant Polyurethane Rubber Square Bar, 24" Long, 3/4" Thick, 90A Durometer	2 Each	2
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